

# **MOBILE TERMINAL IMPLEMENTING A RANGING SIGNAL RECEIVER AND METHOD**

## **Abstract of Disclosure**

Mobile terminal implementing a ranging signal receiver and method. Means are provided to incorporate ranging signal reception capability into a mobile terminal (such as a UMTS terminal) notwithstanding the fact that the ranging signal has a bandwidth that is wider than the bandpass of filtering for native signals within the terminal. A ranging signal receiving subsystem receives broadband signals that comprise synchronization bursts, which are equally spaced in time, such as from digital television stations. A common filter will have a bandpass that it is smaller than the bandwidth of the ranging signals. However, the correlation subsystem of the mobile terminal enables recovery of synchronization bursts by correlating the ranging signal with a known sequence that has been predistorted to account for the bandpass of the common filter.